

# ***BIOTIC COMMUNITIES***



## Stream Fish Distribution and Abundance

Historical records of fish community collections within the Current River Watershed date back to 1 August, 1930 (MDC 1998a and MoRAP 2000a). Fish community collection sites are presented in [Figure Bc01](#). From 1930 to 2000, 124 fish species (not including hybrids or larval lamprey) in 24 families have been collected within the watershed ([Table Bc01](#)) (MDC Ozark Regional Fish Community Collection and Sport Fish Sample Files; MNHP 2001a; Pflieger 1989; Pflieger 1997; MDC 1998a; MoRAP 2000a). Fish community sampling sites are presented in Figure Bc01.

[Table Bc02](#) shows fish species distribution by modified 14 digit hydrologic unit. While this information provides insight into areas of the watershed where species have been collected in the past, it is important to note that the number of fish sampling sites as well as collections vary greatly between drainage units (no data is available for some units), thus negating the use of this data for any quantitative analysis.

Analysis of temporal distribution of species within the watershed was accomplished by dividing the examined period of record for fish community collections into three periods: Period 1 (1930-1957), Period 2 (1958-1979), and Period 3 (1980-2000). This analysis revealed that the number of species within the watershed between periods 1 and 2 remained similar with 111 and 117 species collected respectively. Period 3 saw a substantial decrease in the number of species collected within the watershed

at 82. Of the species not observed in the latter time period, 1 is state endangered and 9 are considered species of conservation concern (MNHP 2001b). Possible reasons for the absence of species from collections of this time period vary. A difference in the number and spatial distribution pattern of sampling locations during period 3 may have a substantial role in the absence of some species in collections. During period 1, approximately 53 locations were sampled with multiple collections from different times of year in the same time period being combined from a small number of these locations. During period 2, 84 locations were sampled. During period 3, 61 locations were sampled. A difference in spatial distribution of sample locations could be another possible explanation. Four of the 11 locations at which the species in question were collected in period 1 were not sampled in period 3. In addition, based on quantitative data available in the MDC fish collection database (MDC 1998a), many of the species in question generally appear to have never been collected in large numbers. Twenty-three species had fewer than 10 specimens collected. An inconsistency between the time periods in the types of sample gear used is perhaps another explanation; however, this was not comprehensively analyzed because sample methodology data was not readily available for all samples.

The previously discussed factors make it difficult to determine actual species decline within the Current River Watershed. Future additional sampling efforts focusing on historic fish collection locations at which the species in question have been collected in the past will be important in determining the extent, if any, of the spatial and temporal shift in the fish community composition of the watershed.

The fish community of the Current River Watershed is composed of a diverse assemblage of fish species representing all four aquatic faunal regions of Missouri as defined by Pflieger (1989 and 1997). While species characteristic of the Ozark faunal region account for a dominating 42.1% of total species in the watershed, species characteristic of the River, Lowland, and Prairie faunal regions comprise 7.9%, 15.1%, and 2.4% respectively of total species in the watershed (Table Bc01, [Table Bc03](#)). The remaining species (32.5%) occurring within the watershed are either widely distributed in Missouri, or are characteristic of more than one faunal region (Table Bct03). One species, the common carp is a nuisance exotic species.

### Game Fish

The Current River and its tributaries offer a variety of angling opportunities. A total of 9 species of gamefish (as defined as game fish in MDC 2001c) are known to occur within the watershed (MDC Ozark Regional Fish Collection Files; MoRAP 2000a; MDC 1998a Pflieger 1997). These include brown trout, chain pickerel, grass pickerel, largemouth bass, rainbow trout, shadow bass, smallmouth bass, walleye, and warmouth. Other game fish species including black crappie, channel catfish, flathead catfish, paddlefish, sauger, spotted bass, white bass, and white crappie, have been observed in the watershed in the past. However, these are not considered to be significant fisheries (the last collections in which these species occurred, with the exception of flathead catfish and paddlefish, were made prior to 1980).



The Current River supports a significant trout fishery in its upper reaches located in southern Dent and northern Shannon Counties. Montauk State Park, one of the Missouri's four trout parks, is located in Dent County at the head of the Current River. Approximately 3 miles of trout stream exist within the park. An additional 16.7 miles of the Current River below the park is also managed for trout. Rainbow trout are the primary species within the park while both rainbows and browns can be found downstream of the park. (Please refer to current copy of the [Missouri Wildlife Code](#))

### Fish Stocking

Due to the existence of a significant cold water fishery within the Current River Watershed, fish stocking efforts have primarily focused on salmonid species. The first recorded introduction of salmonids within the watershed was in 1891 at which time rainbow and brown trout from the federal hatchery at Neosho were stocked in the Current River (Turner 1979). In the years following the initial stocking, salmonids continued to be stocked in the Current River. While rainbow and brown trout were the species stocked on the most consistent basis, introductions of brook trout and grayling also occurred. However, no records of these latter species exist within MDC fish community collections. This would appear to indicate the lack of success of this effort. In 1928, the coldwater resources at Montauk, Missouri were purchased by the Missouri Game and Fish Commission for use as a trout hatchery and fishing area (Turner 1979). The hatchery began operation four years later in 1932.

A new era in the trout fishery of the Current River began in 1937 under the management of the newly created Missouri Department of Conservation. The stocking of Salmonids in the Current River was limited to rainbow trout (Turner 1979). Stocking of brown trout resumed in 1966 (Turner 1974).



Currently, the MDC stocks both rainbow and brown trout in the upper Current River (MDC 2001d). Within the Montauk State Park Boundary, rainbow trout are stocked on a daily basis. Brown trout are stocked each spring in the section of the Current River from the state park to Cedargrove Bridge. From Cedargrove to Akers Ferry, rainbow trout are stocked every few weeks from February to mid-October.

Limited availability of historic stocking records for warm water species, the potential of "bait bucket" introductions and the availability of fish from commercial dealers, makes it difficult to address the entire scope of warm water stocking which has or may have occurred in the Current River Watershed. However, examination of various sources reveals some past stocking efforts within the watershed. The common carp, a species native to Asia, was widely stocked in Missouri by the Missouri

Fish Commission between 1879 and 1895 at which time the program was discontinued (Pflieger 1997). Earliest observations of common carp from MDC fish community collection files are from 1947 (MDC 1998a). While common carp are a component of the commercial fishing industry in Missouri (Barnes and Riggert 2000), common carp can also be a nuisance species. They take space in rivers, streams, and lakes away from native species. They can increase stream and lake turbidity, destroy spawning habitat, while eating the eggs of native species of fish (Barnes and Riggert 2000). MDC annual reports (1937-1942 and 1946-1992) indicate that, historically, warm-water fish stocked or “rescued” (removing fish from intermittent pools of water and redistributing to areas deemed more suitable) by the MDC in the watershed included largemouth bass, smallmouth bass, crappie, bluegill, green sunfish, catfish, shadow bass, and “minnows”. The practice of “fish rescue” has been discontinued.

Nearly 6 million walleye fry less than one inch in length were stocked in the Current River in 1967 and 1968 (Mayers 2000).

Evaluations of this stocking effort determined that survival of the fry was poor (Mayers 2000). Arkansas has stocked 1-2 inch walleye fingerlings in Arkansas section of the Current River since 1986, however as of late 1999 the effect of these stockings had not been evaluated (Mayers 2000).



A 1986 United States Forest Service (USFS) report indicates that Loggers Lake, a USFS lake located in the northeast portion of the watershed, was restocked following refilling after being drained by vandals in 1976. The lake was initially stocked with adult fathead minnows in the spring of 1976. This was followed by largemouth bass, bluegill, and redear sunfish. Channel catfish were later stocked in the fall. In addition, Loggers Lake received stockings of grass carp in 1985 and 1989 (USFS 1986). Currently the MDC provides supplemental channel catfish stockings to Loggers Lake and Ripley Lake, both USFS lake within the watershed, on an annual basis (MDC 2001d). Loggers lake generally receives 375 catfish annually. Ripley Lake generally receives 300 channel catfish annually.

Undoubtedly, farm ponds within the watershed have been stocked with largemouth bass, bluegill, and channel catfish by private individuals who obtained fish from the MDC, commercial dealers, and/or other water bodies. The availability of grass carp from commercial fish dealers also increases the probability of this species having been stocked in water bodies within the watershed. The potential of these fish being washed into streams exists during major precipitation events.

A lack of historical records, plus the occurrence of undocumented introductions makes it difficult to determine, with any reliability, all species which may have been introduced into the watershed. Effects of introductions vary. While the introduction of species already present in the watershed may have minimal to no effect, the introduction of [exotic \(non-native\) species](#) can, in many instances, have disastrous consequences.

## Mussels

A total of 43 species and subspecies of mussels are known to occur within the Current River Watershed ([Table Bc04](#) and [Figure Bc02](#)) (MDC 1998b, MoRAP 2000b and MNHP 2001a). Of these, 2 species are both Federally as well as State listed as endangered. These species are the Curtis Pearlymussel ([Epioblasma florentina](#)) and the pink mucket ([Lampsilis abrupta](#)). The ebonyshell ([Fusconaia ebena](#)), elephantear ([Elliptio crassidens](#)), and snuffbox ([Epioblasma florentina](#)) are state listed

as endangered. An additional 8 mussel species within the watershed are currently listed as species of conservation concern ([Table Bc08](#)). The [Asian clam](#) (*Corbicula flumina*) is an exotic (non-native) species of mussel which occurs in the watershed. This mollusk is a native of southern and eastern Asia . The Asian clam can alter lake and stream substrates, compete with native mussels for food and space, and cause biofouling problems in irrigation systems, power plants, and other industrial water systems (USGS 2002b).

An examination of mussel species distribution by eleven digit hydrologic units in the watershed reveals that the Little Black River Unit has the highest number of species at 39. The Lower Current Unit is a distant second in number of species at 18. However, a quantitative comparison between units is not sound. The intensity of mussel sampling within the Current River Watershed exhibits a large amount of spatial variation. The Little Black River Unit has been sampled the most intensively with approximately 66% of referenced sampling sites for the watershed occurring within its boundary. Two units, the Pike Creek and Spring Valley Units, lack mussel sampling data. Due to an inequity in sampling intensity between the eleven digit hydrologic units, quantitative comparisons of mussel diversity between these units would be inaccurate.

## Snails

Twenty-five species of snails have been identified within the Current River Watershed ([Table Bc05](#)) (Wu etal. 1997). One species, the rough hornsail (*Pleurocera alveare*) is included in the state list of species of conservation concern (MNHP 2001b). It is currently considered to be rare and uncommon to imperiled in the state.

## Crayfish

Fourteen species of crayfish are known to occur within the Current River Watershed ([Table Bc06](#) and [Figure Bc03](#)) (MDC 1998c and MoRAP 2000c). Most species have distributions in or closely associated with the Ozark and/or Lowland faunal Region (Pfleiger 1996). Exceptions to this include the devil crayfish (*Cambarus diogenes*), northern crayfish (*Orconectes virilis*), and golden crayfish (*Orconectes Luteus*). The devil crayfish is nearly statewide in distribution being absent only from the White and Neosho River Drainages of the southwestern Ozarks (Pfleiger 1996). The northern crayfish is the most widely distributed crayfish in Missouri. It occurs in all areas of the state with the exception of the southeastern Lowlands and portions of the central Ozarks (Pfleiger 1996). The golden crayfish can be found primarily in portions of the Prairie and Ozark Faunal Region. In the Ozarks, it is absent from the Black, Eleven Point, White, and Neosho stream drainages (Pfleiger 1996).

Within the Current River Watershed, the golden crayfish appears to be the most widespread. It occurs in all 7 eleven digit hydrologic units that have been sampled. The spothanded crayfish (*Orconectes punctimanus*) is the second most widespread in the watershed occurring in 6 out of 7 units sampled. Six species of crayfish have a distribution in the watershed limited to the Little Black River Hydrologic Unit. These include the cajun dwarf crayfish (*Cambarellus puer*), digger crayfish (*Fallicambarus fodiens*), shield crayfish (*Faxonella clypeata*), gray-speckled crayfish (*Orconectes palmeri*), red swamp crayfish (*Procambarus clarkii*), and vernal crayfish (*Procambarus viaeviridus*).

Five species of crayfish found within the Current River Watershed are currently listed as species of conservation concern (MNHD 2001b). These include the cajun dwarf crayfish, Salem cave crayfish (*Cambarus hubrichti*), digger Crayfish (*Fallicambarus fodiens*), shield crayfish (*Faxonella clypeata*), and

vernal crayfish (*Procambarus viaeviridus*). Within the watershed, all of these species, with the exception of the Salem cave crayfish (*Cambarus hubrichti*), have only been found in the Little Black River Hydrologic Unit.

## Benthic Invertebrates

Three hundred taxa of aquatic invertebrates have been collected within the Current River Watershed since 1961 (MDC 1998d) ([Table Bc07](#)). From 1961-1979, 194 taxa were collected within the watershed. Since and including 1980, 228 taxa of aquatic invertebrates have been collected. [Figure Bc04](#) displays benthic invertebrate collection sites within the watershed. Five species are listed as Missouri species of conservation concern (MDNHP 2001b). These include *Stenonema bednariki* (a heptageniid mayfly), *Allocapnia pumaea* (a winter stonefly), *Hydropsyche piatrix* (a net-spinning caddisfly), *Ophiogomphus westfalli* (Westfall's snaketail, a dragonfly), and *Tachopteryx thoreyi* (gray petaltail, a dragonfly) (Pennak 1978).

## Species of Conservation Concern

Within the Current River Watershed, 169 species of conservation concern have been identified (Table Bc08) (MDC Ozark Regional Fish Community Collection and Sport Fish Sample Files; Pflieger 1997; Wu et al. 1997; MDC 1998a; MDC 1998b; MDC 1998c; MDC 1998d; MoRAP 2000a ;MoRAP 2000b; MoRAP 2000c; MNHP 2001a; MNHP 2001b). These include 117 species of plants (flowering plants, ferns, fern allies, and mosses); 7 species of insects; 5 species of crayfish; 10 species of mussels; 1 snail species; 17 species of fish; 4 species of amphibians, 7 species of birds; and 6 species of mammals. Six species within the watershed are federally and state listed as endangered. These include the gray bat, Indiana bat, Curtis pearlymussel, pink mucket, pondberry, and running buffalo clover. The red-cockaded wood pecker is also federally listed as endangered; however it is currently considered extirpated from the state. These include the last observation of the species in the watershed was 1946. An additional 8 species are currently state listed as endangered. These include Swainson's warbler, harlequin darter, taillight shiner, plains spotted skunk, elephantear, snuffbox, ebonyshell, and the eastern prairie fringed orchid. It is important to note that the status of the above mentioned species are based on the 2001 Missouri Species of Conservation Concern Checklist (MNHP 2001b).

The following is a brief description of state and/or federally listed endangered aquatic oriented animal species within the Current River Watershed:

## **Fish**

### Harlequin Darter (*Etheostoma histrio*)

Within the Current River Watershed, The harlequin darter, being a characteristic lowland species, has only been found within the Little Black River drainage (MDC 1998a, MoRAP 2000a, and MNHP 2001a) the lower portions of which more closely resemble streams and ditches of the Lowland Faunal Region. The first MDC record for a collection of the harlequin darter within the Current River Watershed occurred in 1941 at which time one individual was found (MDC 1998a). Five other individuals collected in the watershed are recorded in the MDC fish collection database. These were collected from a single site in the late 1970s. The Missouri Natural Heritage database contains records for observations of the harlequin darter in the watershed as recently as 1998.

### Taillight Shiner (*Notropis maculatus*)

Pfleiger (1997) states that the taillight shiner is “one of the rarest Missouri minnows”. Indeed, the taillight shiner has only been collected from 6 locations in Missouri (MDC 1998a, MoRAP 2000a, and MNHP 2001a). All of these are in or border the Lowland Faunal Region. This shiner has only been found at one location in the Current River Watershed (Little Black River Drainage). Pfleiger (1997) states that the taillight shiner “seems on the verge of extirpation from the state”.

## Mussels

### Elephant Ear (*Elliptio crassidens*)

The elephant ear is state listed as endangered (MNHP 2001b). It was found at two sites within the Current River Watershed in the early 1980s (MNHP 2001a). Both sites are within the Little Black River Drainage.

### Curtis pearlymussel (*Epioblasma florentina curtisi*)

The Curtis Pearlymussel is state and federally listed as endangered (MNHP 2001b). Within the Current River Watershed, the Curtis pearlymussel has only been found in the Little Black River Drainage. This species was last found in the watershed in 1993 (MNHP 2001a).

### Snuffbox (*Epioblasma triquetra*)

The snuffbox is state listed as endangered (MNHP 2001b). The only record of this species within the watershed is from a single site in the Little Black River Drainage at which 2 live specimens were observed in 1984 (MNHP 2001a).

### Ebonyshell (*Fusconaia ebena*)

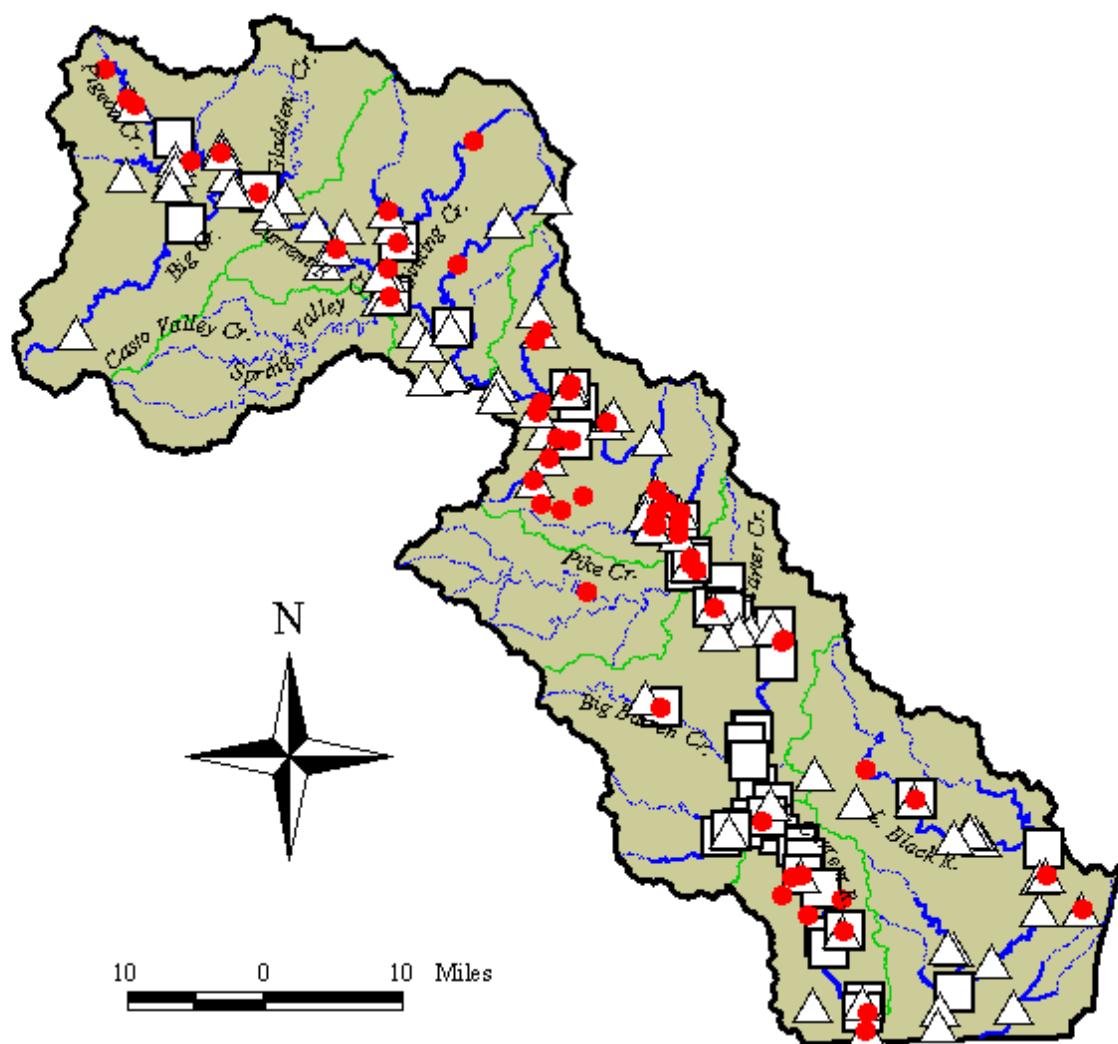
The ebonyshell is state listed as endangered (MNHP 2001b). Within the watershed, this species appears to have only been found at a single site within the Little Black River Drainage (MDC 1998b, MoRAP 2000b, and MNHP 2001a). The one and only specimen of this species found within the watershed was observed in 1979 (MNHP 2001a). Bruenderman et al. (2001) states that mussel surveys conducted in 1997 and 1998 in the Little Black drainage showed no evidence that this species still exists within the drainage.

### Pink Mucket (*Lampsilis abrupta*)

The pink mucket is state and federally listed as endangered (MNHP 2001b). Within the Current River Watershed, this species has been found at two sites located in the Little Black River Drainage (MDC 1998b, MoRAP 2000b, and MNHP 2001a). The last observation of this species within the watershed was in 1979 (MNHP 2001a).

Figure Bc01

## Current River Watershed Fish Community Sampling Sites



### Legend

Eleven Digit Hydrologic Unit Boundary

#### Fish Community Sampling Sites\*

● 1980-2000

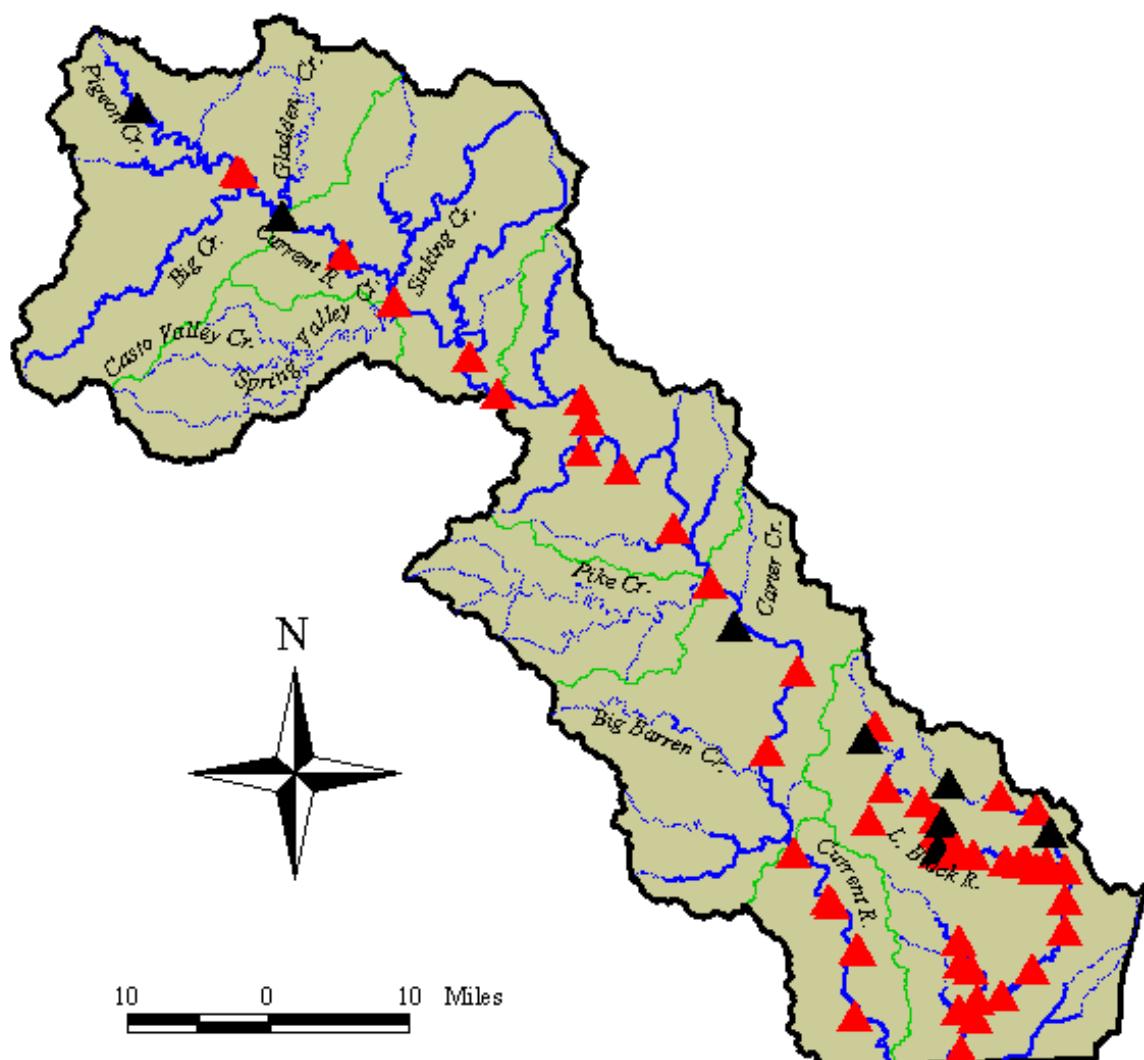
△ 1958-1979

□ 1930-1957

\*MDC 1998a and MoRAP 2000a

Figure Bc02.

## Current River Watershed Mussel Community Sampling Sites



### Legend

Eleven Digit Hydrologic Unit Boundary

#### Mussel Community Sampling Sites\*

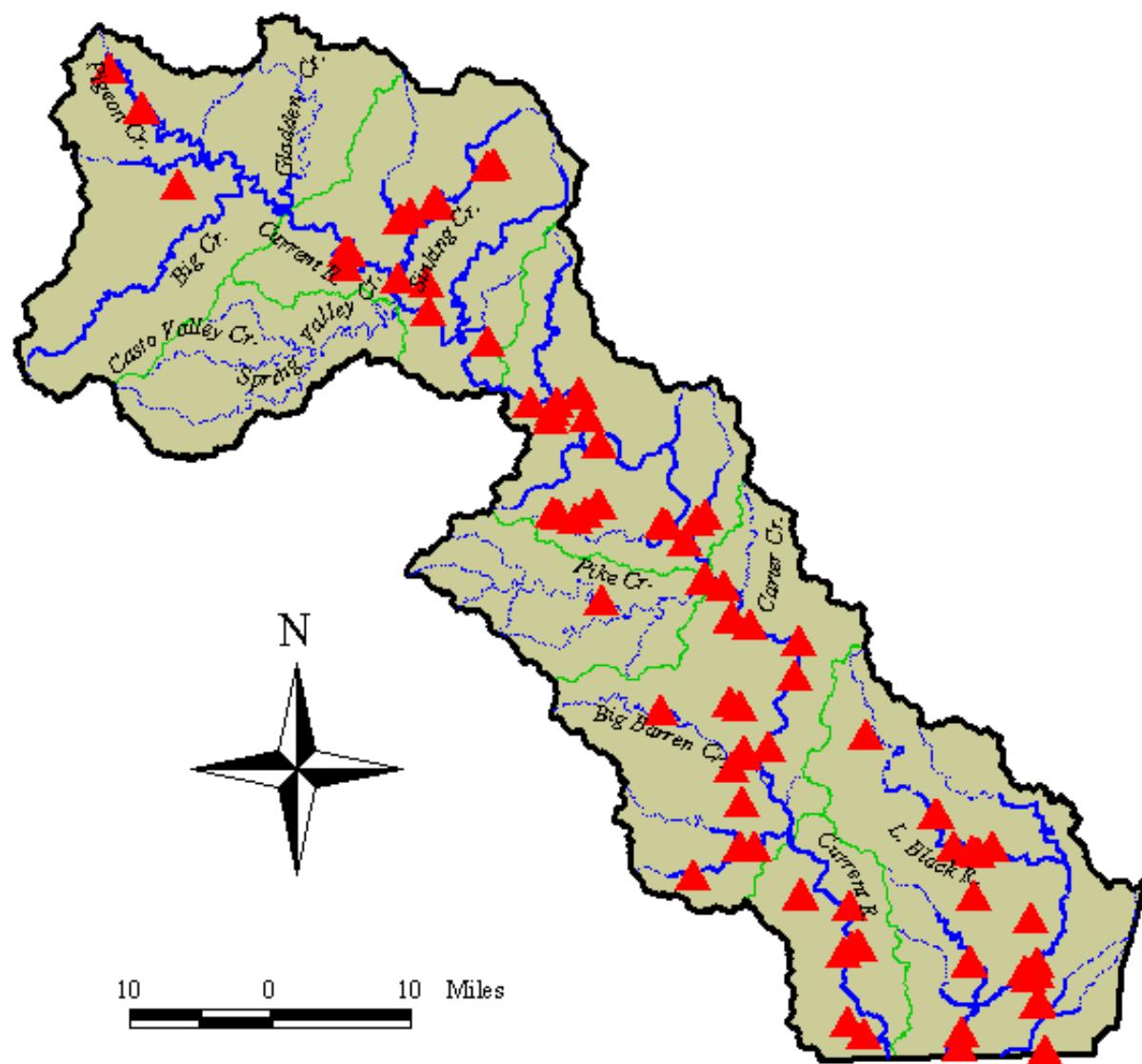
Mussel Species Present

Mussel Species Absent

\*MDC 1998b and MoRAP 2000b

Figure Bc03.

## Current River Watershed Crayfish Community Sampling Sites



### Legend

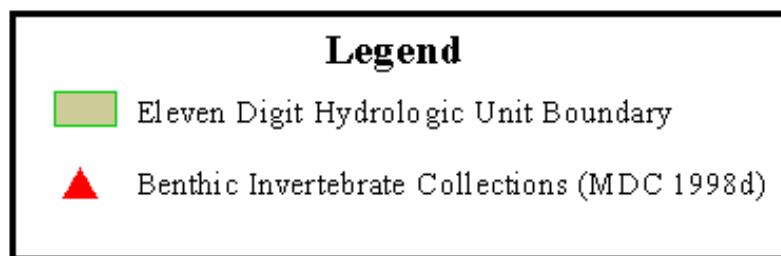
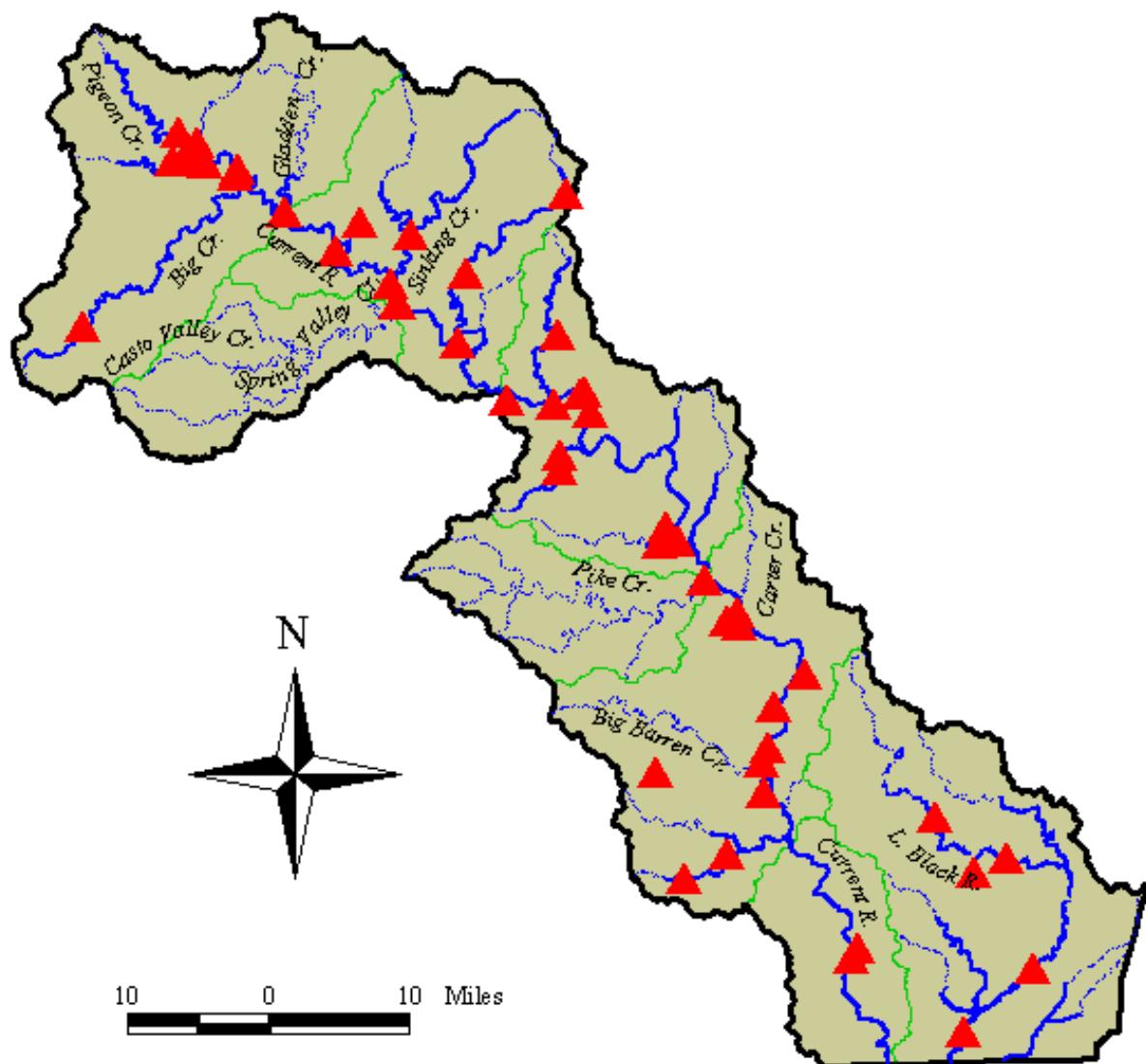
[Green square] Eleven Digit Hydrologic Unit Boundary

[Red triangle] Crayfish Community Sample Site\*

\*MDC 1998c and MoRAP 2000c

Figure Bc04.

## Current River Watershed Benthic Invertebrate Community Sampling Sites



**Table Bc01 (1 of 7). Fish species (and subspecies) whose distribution range includes the Current River Watershed (MDC Ozark Regional Fish Community and Sport Fish Sample Files; Pflieger 1989; Pflieger 1997; MDC 1998a; MNHP 2001a; MoRAP 2000a).**

Common Name	Scientific Name	Geographic Affinity	Period		
			1	2	3
<i>Family: Petromyzontidae (Lampreys)</i>	<i>Total Species: 4</i>			3	3
American Brook Lamprey	<i>Lampetra appendix</i>	O	X	X	
Chestnut Lamprey	<i>Ichthyomyzon castaneus</i>	O,R	X	X	
Least Brook Lamprey	<i>Lampetra aepyptera</i>	O	X	X	X
<i>Family: Acipenseridae (Sturgeons)</i>	<i>Total Species: 1</i>			1	1
Shovelnose Sturgeon	<i>Scaphirhynchus platorynchus</i>		X	X	
<i>Family: Polyodontidae (Paddlefishes)</i>	<i>Total Species: 1</i>			1	1
Paddlefish	<i>Polyodon spathula</i>	R	X	X	X
<i>Family: Lepisosteidae (Gars)</i>	<i>Total Species: 4</i>			3	4
Alligator Gar	<i>Lepisosteus spatula</i>	R		X	
Longnose Gar	<i>Lepisosteus osseus</i>	WIDE	X	X	X
Shortnose Gar	<i>Lepisosteus platostomus</i>	R	X	X	
Spotted Gar	<i>Lepisosteus oculatus</i>	L	X	X	
<i>Family: Amiidae (Bowfins)</i>	<i>Total Species: 1</i>			1	1
Bowfin	<i>Amia calva</i>	L,R	X	X	
<i>Family: Hiodontidae (Mooneyes)</i>	<i>Total Species: 1</i>			1	1
Mooneye	<i>Hiodon tergisus</i>	WIDE	X	X	
<i>Family: Anguillidae (Freshwater Eels)</i>	<i>Total Species: 1</i>			1	1
American Eel	<i>Anguilla rostrata</i>	R,O	X	X	
<i>Family: Clupeidae (Herrings)</i>	<i>Total Species: 3</i>			2	3
Gizzard Shad	<i>Dorosoma cepedianum</i>	WIDE	X	X	X
Skipjack Herring	<i>Alosa chrysochloris</i>	R	X	X	
Threadfin Shad	<i>Dorsoma petenense</i>	R		X	
<i>Family: Cyprinidae (Minnows)</i>	<i>Total Species: 31</i>			28	28
Bigeye Chub	<i>Notropis amblops</i>	O	X	X	X
Bigeye Shiner	<i>Notropis boops</i>	O	X	X	X
Blacktail Shiner	<i>Cyprinella venusta</i>	L	X	X	X
Bleeding Shiner	<i>Luxilus zonatus</i>	O	X	X	X
Bluntnose Minnow	<i>Pimephales notatus</i>	WIDE	X	X	X
Bullhead Minnow	<i>Pimephales vigilax</i>	L, R	X	X	
Central Stoneroller	<i>Campostoma pullum</i>	O,P	X	X	X
Common Carp	<i>Cyprinus carpio</i>	WIDE	X	X	X
Creek Chub	<i>Semotilus atromaculatus</i>	P,O	X	X	X
Eastern Redfin Shiner	<i>Lythrurus u. cyancephalus</i>	O,L	X	X	X
Emerald Shiner	<i>Notropis atherinoides</i>	R	X	X	X
Fathead Minnow	<i>Pimephales promelas</i>	P	X		
Golden Shiner	<i>Notemigonus crysoleucas</i>	WIDE	X	X	X

Gravel Chub	<i>Erimystax x-punctatus</i>	O		X	X
Hornyhead Chub	<i>Nocomis biguttatus</i>	O	X	X	X
Largescale Stoneroller	<i>Campostoma oligolepis</i>	O	X	X	X
Mississippi Silvery Minnow	<i>Hybognathus nuchalis</i>	R	X	X	X
Ozark Chub	<i>Erimystax harryi</i>	O	X	X	X
Ozark Minnow	<i>Notropis nubilus</i>	O	X	X	X
Ozark Shiner	<i>Notropis ozarkanus</i>	O	X	X	X
Pallid Shiner	<i>Notropis amnis</i>	L	X		
Pugnose Minnow	<i>Opsopoeodus emiliae</i>	L	X	X	
Ribbon Shiner	<i>Lythrurus fumeus</i>	L	X	X	X
Rosyface Shiner	<i>Notropis rubellus</i>	O	X	X	X
Southern Redbelly Dace	<i>Phoxinus erythrogaster</i>	O	X	X	X
Steelcolor Shiner	<i>Cyprinella whipplei</i>	O	X		
Striped Shiner	<i>Luxilus chryscephalus</i>	O	X	X	X
Taillight Shiner	<i>Notropis maculatus</i>	L		X	
Telescope Shiner	<i>Notropis telescopus</i>	O	X	X	X
Wedgespot Shiner	<i>Notropis greenei</i>	O	X	X	X
Weed Shiner	<i>Notropis texanus</i>	L	X	X	

*Family: Catostomidae (Suckers) Total Species: 17*      16    16    14

Bigmouth Buffalo	<i>Ictiobus cyprinellus</i>	R	X	X	
Black Buffalo	<i>Ictiobus niger</i>	WIDE	X	X	X
Black Redhorse	<i>Moxostoma duquesnei</i>	O	X	X	X
Blue Sucker	<i>Cyclopterus elongatus</i>	R,O	X	X	
Creek Chubscker	<i>Erimyzon oblongus</i>	O	X	X	X
Golden Redhorse	<i>Moxostoma erythrurum</i>	O,P	X	X	X
Highfin Carpsucker	<i>Carpiodes velifer</i>	O		X	X
Lake Chubsucker	<i>Erimyzon suetta</i>	L	X		X
Northern Hog Sucker	<i>Hypentelium nigricans</i>	O	X	X	X
River Carpsucker	<i>Carpiodes carpio</i>	R,P	X	X	
River Redhorse	<i>Moxostoma carinatum</i>	O	X	X	X
Shorthead Redhorse	<i>Moxostoma macrolepidotum</i>	O	X	X	X
Silver Redhorse	<i>Moxostoma anisurum</i>	O	X	X	X
Smallmouth Buffalo	<i>Ictiobus bubalus</i>	R	X	X	X
Spotted Sucker	<i>Minytrema melanops</i>	L,O	X	X	X
Whitetail Shiner	<i>Cyprinella galactura</i>	O	X	X	X
White Sucker	<i>Catostomus commersoni</i>	P,O	X	X	X

*Family: Ictaluridae (Catfishes) Total Species: 10*      9    10    5

Black Bullhead	<i>Ameiurus melas</i>	P	X	X	
Brindled Madtom	<i>Noturus miurus</i>	O,L	X	X	
Channel Catfish	<i>Ictalurus punctatus</i>	WIDE	X	X	
Checkered Madtom	<i>Noturus flavater</i>	O	X	X	X
Flathead Catfish	<i>Pylodictis olivaris</i>	WIDE	X	X	X
Freckled Madtom	<i>Noturus nocturnus</i>	L,P	X	X	
Ozark Madtom	<i>Noturus albater</i>	O	X	X	X

Tadpole Madtom	<i>Noturus gyrinus</i>	L,P	X	X	
Yellow Bullhead	<i>Ameiurus natalis</i>	P,O	X	X	X
Slender Madtom	<i>Noturus exilis</i>	O		X	X
<i>Family: Esocidae (Pikes)</i>	<i>Total Species: 2</i>		1	1	2
Chain Pickerel	<i>Esox niger</i>	O	X	X	X
Grass Pickerel	<i>Esox americanus</i>	O			X
<i>Family: Salmonidae (Trouts)</i>	<i>Total Species: 2</i>		1	1	2
Brown Trout	<i>Salmo trutta</i>	O			X
Rainbow Trout	<i>Oncorhynchus mykiss</i>	O	X	X	X
<i>Family: Aphredoderidae (Pirate Perches)</i>	<i>Total Species: 1</i>		1	1	1
Pirate Perch	<i>Aphredoderus sayanus</i>	L	X	X	X
<i>Family: Amblyopsidae (Cavefishes)</i>	<i>Total Species: 1</i>		1	0	1
Southern Cavefish	<i>Typhlichthys subterraneus</i>	O	X		X
<i>Family: Fundulidae (Killfishes)</i>	<i>Total Species: 3</i>		2	3	2
Blackspotted Topminnow	<i>Fundulus olivaceous</i>	L,O	X	X	X
Starhead Topminnow	<i>Fundulus dispar</i>	L			X
Studfish	<i>Fundulus catenatus</i>	O	X	X	X
<i>Family: Poeciliidae (Livebearers)</i>	<i>Total Species: 1</i>		1	1	1
Western Mosquitofish	<i>Gambusia affinis</i>	WIDE	X	X	X
<i>Family: Atherinidae (Silversides)</i>	<i>Total Species: 1</i>		1	1	1
Brook Silverside	<i>Labidesthes sicculus</i>	O	X	X	X
<i>Family: Cottidae (Sculpins)</i>	<i>Total Species: 2</i>		2	2	2
Banded Sculpin	<i>Cottus carolinae</i>	O	X	X	X
Ozark Sculpin	<i>Cottus hypselurus</i>	O	X	X	X
<i>Family: Percichthyidae (Temperate Basses)</i>	<i>Total Species: 1</i>		1	1	0
White Bass	<i>Morone chrysops</i>	O,P	X	X	
<i>Family: Elassomatidae (Pygmy Sunfishes)</i>	<i>Total Species: 1</i>		0	1	1
Banded Pigmy Sunfish	<i>Elassoma zonatum</i>	L		X	X
<i>Family: Centrarchidae (Sunfishes)</i>	<i>Total Species: 14</i>		13	14	9
Black Crappie	<i>Pomoxis nigromaculatus</i>	WIDE	X	X	
Bluegill	<i>Lepomis macrochirus</i>	WIDE	X	X	X
Flier	<i>Centrarchus macropterus</i>	L			X
Green Sunfish	<i>Lepomis cyanellus</i>	WIDE	X	X	X
Largemouth Bass	<i>Micropterus salmoides</i>	WIDE	X	X	X
Longear Sunfish	<i>Lepomis megalotis</i>	O,L	X	X	X
Orange Spotted Sunfish	<i>Lepomis humilis</i>	WIDE	X	X	
Redear Sunfish	<i>Lepomis microlophus</i>	O	X	X	X
Red Spotted Sunfish	<i>Lepomis miniatus</i>	L,O	X	X	X
Shadow Bass	<i>Amploplites ariommus</i>	O	X	X	X
Smallmouth Bass	<i>Micropterus dolomieu</i>	O	X	X	X
Spotted Bass	<i>Micropterus punctulatus</i>	L,O	X	X	
Warmouth	<i>Lepomis gulosus</i>	L	X	X	X
White Crappie	<i>Pomoxis annularis</i>	WIDE	X	X	
<i>Family: Percidae (Perches)</i>	<i>Total Species: 23</i>		19	21	12

Banded Darter	<i>Etheostoma zonale</i>	O	X	X	X
Barred Fantail Darter	<i>Etheostoma f. flabellare</i>	O	X	X	X
Blackside Darter	<i>Percina maculata</i>	P,L	X	X	
Bluntnose Darter	<i>Etheostoma chlorosomum</i>	L	X	X	
Current Darter	<i>Etheostomas. Uniporum</i>	O	X	X	X
Current River Saddled Darter	<i>Etheostoma e. erizorum</i>	O	X	X	X
Cypress Darter	<i>Etheostoma proeliare</i>	L	X	X	
Dusky Darter	<i>Percina sciera</i>	L	X	X	
Gilt Darter	<i>Percina evides</i>	O	X	X	X
Greenside Darter	<i>Etheostoma blennioides</i>	O	X	X	X
Harlequin Darter	<i>Etheostoma histrio</i>	L	X	X	X
Johnny Darter	<i>Etheostoma nigrum</i>	P	X	X	X
Ohio Logperch	<i>Percina c. caprodes</i>	O	X	X	X
Rainbow Darter	<i>Etheostoma caeruleum</i>	O	X	X	X
Saddleback Darter	<i>Percina vigil</i>	L		X	
Sauger	<i>Stizostedion canadense</i>	R		X	
Slough Darter	<i>Etheostoma gracile</i>	L	X	X	
Speckled Darter	<i>Etheostoma stigmaeum</i>	O,L	X	X	
Stargazing Darter	<i>Percina uraidea</i>	O	X	X	X
Stippled Darter	<i>Etheostoma punctulatum</i>	O	X	X	
Walleye	<i>Stizostedion vitreum</i>	O,R	X	X	X
<i>Family: Sciaenidae (Drums) Total Species: 1</i>				1	
Freshwater Drum	<i>Aplodinotus grunniens</i>	WIDE	X	X	X
<b>Watershed Species Total: 124</b>			<b>111</b>	<b>117</b>	<b>82</b>

Period: 1=collected 1930 to 1957; 2=collected 1958 to 1979; 3=collected 1980 to 2000 Geographic Affinity (based on aquatic faunal regions of Missouri ): L=Lowland, O=Ozark, P=Prairie, R=Big River, WIDE=Widely Distributed

**Table Bc02 (1 of 6). Fish species distribution within eleven digit hydrologic units of the Current River Watershed (MDC Ozark Regional Fish Community and Sport Fish Sample Files; Pfleiger 1997; MDC 1998a; MoRAP 2000a).** Note: List does not include species of conservation concern.

UCR= Upper Current River SV= Spring Valley CRSC=Current River-Sinking Creek LCR= Lower Current River

MCR= Middle Current River PC=Pike Creek CRBC=Current River-Buffalo Creek LBR=Little Black River

Common Name	Scientific Name	UCR	SV RS C	CR C	MCR	PC	CRB C	LCR	LB R
American Eel	<i>Anguilla rostrata</i>			X	X		X	X	
Banded Darter	<i>Etheostoma zonale</i>	X		X	X		X	X	X
Banded Pigmy Sunfish	<i>Elassoma zonatum</i>								X
Banded Sculpin	<i>Cottus carolinae</i>	X		X	X	X	X	X	
Barred Fantail Darter	<i>Etheostoma f. flabellare</i>	X		X	X		X		X
Bigeye Chub	<i>Notropis amblops</i>	X		X	X	X	X	X	X
Bigeye Shiner	<i>Notropis boops</i>			X	X	X	X	X	X
Bigmouth Buffalo	<i>Ictiobus cyprinellus</i>			X	X		X	X	X
Black Buffalo	<i>Ictiobus niger</i>			X			X	X	X
Black Bullhead	<i>Ameiurus melas</i>	X		X	X		X	X	X
Black Crappie	<i>Pomoxis nigromaculatus</i>			X	X		X	X	X
Black Redhorse	<i>Moxostoma duquesnei</i>	X		X	X	X	X	X	X
Blackside Darter	<i>Percina maculata</i>							X	X
Blackspotted Topminnow	<i>Fundulus olivaceous</i>	X		X	X	X	X	X	X
Blacktail Shiner	<i>Cyprinella venusta</i>							X	X
Bleeding Shiner	<i>Luxilus zonatus</i>	X	X	X	X	X	X	X	X
Bluegill	<i>Lepomis macrochirus</i>	X	X	X	X	X	X	X	X
Bluntnose Darter	<i>Etheostoma chlorosomum</i>								X
Bluntnose Minnow	<i>Pimephales notatus</i>	X			X	X	X	X	X
Bowfin	<i>Amia calva</i>							X	X
Brindled Madtom	<i>Noturus miurus</i>								X
Brook Silverside	<i>Labidesthes sicculus</i>				X	X	X	X	X
Brown Trout	<i>Salmo trutta</i>	X							
Bullhead Minnow	<i>Pimephales vigilax</i>								X
Central Stoneroller	<i>Campostoma pullum</i>	X		X	X	X	X	X	X
Chain Pickerel	<i>Esox niger</i>	X		X	X	X	X	X	X
Channel Catfish	<i>Ictalurus punctatus</i>						X	X	X
Chestnut Lamprey	<i>Ichthyomyzon castaneus</i>						X	X	X
Common Carp	<i>Cyprinus carpio</i>	X		X	X		X	X	X

Creek Chub	<i>Semotilus atromaculatus</i>	X	X	X	X	X	X	X
Creek Chubsucker	<i>Erimyzon oblongus</i>	X	X	X	X	X	X	X
Current Darter	<i>Etheostoma uniporum</i>	X	X	X	X	X	X	X
Current River Saddled Darter	<i>Etheostoma e. erizorum</i>		X	X		X	X	
Cypress Darter	<i>Etheostoma proeliare</i>						X	X
Dusky Darter	<i>Percina sciera</i>							X
Eastern Redfin Shiner	<i>Lythrurus u. cyancephalus</i>	X	X	X	X	X	X	X
Emerald Shiner	<i>Notropis atherinoides</i>						X	X
Fathead Minnow	<i>Pimephales promelas</i>	X						
Flathead Catfish	<i>Pylodictis olivaris</i>			X			X	X
Freckled Madtom	<i>Noturus nocturnus</i>						X	X
Freshwater Drum	<i>Aplodinotus grunniens</i>		X	X		X	X	X
Gilt Darter	<i>Percina evides</i>			X	X	X	X	
Gizzard Shad	<i>Dorosoma cepedianum</i>	X	X	X	X	X	X	X
Golden Redhorse	<i>Moxostoma erythrurum</i>	X	X	X	X	X	X	X
Golden Shiner	<i>Notemigonus crysoleucas</i>	X	X	X		X	X	X
Grass Pickerel	<i>Esox americanus</i>							X
Gravel Chub	<i>Erimystax x-punctatus</i>							X
Green Sunfish	<i>Lepomis cyanellus</i>	X	X	X	X	X	X	X
Greenside Darter	<i>Etheostoma blennioides</i>	X	X	X	X	X	X	X
Hornyhead Chub	<i>Nocomis biguttatus</i>	X	X	X	X	X	X	X
Johnny Darter	<i>Etheostoma nigrum</i>						X	X
Largemouth Bass	<i>Micropterus salmoides</i>	X	X	X	X	X	X	X
Largescale Stoneroller	<i>Campostoma oligolepis</i>	X	X	X	X	X	X	X
Larval Lamprey	<i>Ichthyomyzon ammocoete</i>			X		X	X	X
Least Brook Lamprey	<i>Lampetra aepyptera</i>	X	X	X				X
Longear Sunfish	<i>Lepomis megalotis</i>	X	X	X	X	X	X	X
Longnose Gar	<i>Lepisosteus osseus</i>			X	X		X	X
Northern Hog Sucker	<i>Hypentelium nigricans</i>	X	X	X	X	X	X	X
Ohio Logperch	<i>Percina c. caprodes</i>			X	X		X	X
Orange Spotted Sunfish	<i>Lepomis humilis</i>							X
Ozark Chub	<i>Erimystax harri</i>	X	X	X		X	X	
Ozark Madtom	<i>Noturus albater</i>	X	X	X		X	X	X
Ozark Minnow	<i>Notropis nubilus</i>	X	X	X	X	X	X	X
Ozark Sculpin	<i>Cottus hypselurus</i>	X	X	X	X	X	X	X
Pirate Perch	<i>Aphredoderus sayanus</i>						X	X
Rainbow Darter	<i>Etheostoma caeruleum</i>	X	X	X	X	X	X	X
Rainbow Trout	<i>Oncorhynchus mykiss</i>	X	X					
Red Spotted Sunfish	<i>Lepomis miniatus</i>		X	X	X	X	X	X
Redear Sunfish	<i>Lepomis microlophus</i>			X		X	X	

Ribbon Shiner	<i>Lythrurus fumeus</i>	X					X	X
River Carpsucker	<i>Carpoides carpio</i>						X	
River Redhorse	<i>Moxostoma carinatum</i>	X		X		X	X	X
Rosyface Shiner	<i>Notropis rubellus</i>	X	X	X		X	X	
Saddleback Darter	<i>Percina vigil</i>							X
Sauger	<i>Stizostedion canadense</i>		X	X			X	
Shadow Bass	<i>Ambloplites ariommus</i>	X	X	X	X	X	X	X
Shorthead Redhorse	<i>Moxostoma macrolepidotum</i>	X	X	X		X	X	X
Shortnose Gar	<i>Lepisosteus platostomus</i>						X	X
Shovelnose Sturgeon	<i>Scaphirhynchus platorynchus</i>						X	
Silver Redhorse	<i>Moxostoma anisurum</i>			X		X	X	
Wedgespot Shiner	<i>Notropis greenei</i>	X	X	X		X	X	
Weed Shiner	<i>Notropis texanus</i>						X	X
Western Mosquitofish	<i>Gambusia affinis</i>					X	X	X
White Bass	<i>Morone chrysops</i>						X	
White Crappie	<i>Pomoxis annularis</i>					X	X	X
White Sucker	<i>Catostomus commersonni</i>	X	X	X	X	X	X	X
Whitetail Shiner	<i>Cyprinella galactura</i>			X	X	X	X	X
Yellow Bullhead	<i>Ameiurus natalis</i>	X	X	X	X	X	X	X

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**Table Bc03. Missouri aquatic faunal region representation by fish species within the Current River Watershed (MDC Ozark Regional Fish Community and Sport Fish Sample Files; Pfleiger 1989; Pfleiger 1997; MDC 1998a; MNHP 2001a; MoRAP 2000a)**

Faunal Region(s)	Number of Species	Percent of Species
Ozark	53	42.1
Ozark, River	2	1.6
Ozark, Prairie	3	2.4
Ozark, Lowland	4	3.2
River	10	7.9
River, Ozark	2	1.6
River, Prairie	1	0.8
Lowland	19	15.1
Lowland, River	2	1.6
Lowland, Ozark	4	3.2
Lowland, Prairie	2	1.6
Prairie	3	2.4
Prairie, Ozark	3	2.4
Prairie, Lowland	1	0.8
Wide	17	13.5

**Table Bc04. Mussel species distribution within the Current River Watershed (MDC 1998b, MoRAP 2000b, MNHP 2001a). Note: Location data not given for species of conservation concern.**

UCR= Upper Current River

SV= Spring Valley

CRSC=Current River-Sinking Creek

LCR= Lower Current River

MCR= Middle Current River

PC=Pike Creek

CRBC=Current River-Buffalo Creek

LBR=Little Black River

Common Name	Scientific Name	UCR	SV	CRSC	MCR	PC	CRC	LCR	LB
Mucket	<i>Actinonaias ligamentina</i>								X
Elktoe	<i>Alasmidonta marginata</i>								
Slippershell Mussel	<i>Alasmidonta viridis</i>								
Threeridge	<i>Amblema plicata</i>							X	X
Asiatic Clam	<i>Corbicula fluminea</i>				X		X	X	X
Purple Wartyback	<i>Cyclonaias tuberculata</i>				X		X	X	X
Western Fanshell	<i>Cyprogenia aberti</i>								
Spike	<i>Elliptio dilatata</i>			X	X			X	X
Elephantear	<i>Elliptio crassidens</i>								
Curtis Pearlymussel	<i>Epioblasma florentina curtisi</i>								
Snuffbox	<i>Epioblasma triquetra</i>								
Ebonyshell	<i>Fusconaia ebena</i>								
Wabash Pigtoe	<i>Fusconaia flava</i>							X	X
Ozark Pigtoe	<i>Fusconaia ozarkensis</i>	X		X	X		X	X	
Pink Mucket	<i>Lampsilis abrupta</i>								
Ozark Broken-ray	<i>Lampsilis r. brevicula</i>	X			X		X	X	X
Northern Broken-ray	<i>Lampsilis r. brittsei</i>						X	X	X
Pocketbook	<i>Lampsilis cardium</i>				X			X	X
Arkansas Broken-ray	<i>Lampsilis r. reeviana</i>	X		X	X				X
Fatmucket	<i>Lampsilis siliquoidea</i>							X	X
Yellow Sandshell	<i>Lampsilis teres</i>							X	X
Fluted Shell	<i>Lasmigona costata</i>				X		X	X	X
White Heelsplitter	<i>Lasmigona c. complanata</i>								X
Black Sandshell	<i>Ligumia recta</i>								
Pondmussel	<i>Ligumia subrostrata</i>								X
Washboard	<i>Megalonaia nervosa</i>								X
Threehorn Wartyback	<i>Obliquaria reflexa</i>								X
Bankclimber	<i>Plectomerus dombeyanus</i>					X	X		
Round Pigtoe	<i>Pleurobema sintoxia</i>			X	X		X	X	X

Bleufer	<i>Potamilus purpuratus</i>							X
Ouachita Kidneyshell	<i>Ptychobranchus occidentalis</i>							
Giant Floater	<i>Pyganodon grandis grandis</i>							X
Pimpleback	<i>Quadrula pustulosa</i>							X
Squawfoot	<i>Strophitus undulatus</i>				X			X
Purple Lilliput	<i>Toxolasma lividus</i>							
Lilliput	<i>Toxolasma parvus</i>							X
Pistolgrip	<i>Tritogonia verrucosa</i>						X	X
Deertoe	<i>Truncilla truncata</i>							X
Fawnsfoot	<i>Truncilla donaciformis</i>							X
Paper Pondshell	<i>Utterbackia imbecillis</i>			X				X
Ellipse	<i>Venusta concha ellipsiformis</i>							X
Rainbow	<i>Villosa iris</i>	X	X	X		X		X
Little Spectaclecase	<i>Villosa lienosa</i>							X

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**Table Bc05. Snail Species of the Current River Watershed (Wu et al. 1997).**

Common Name	Scientific Name
Ash Gyro	<i>Gyraulus parvus</i>
Bugle Sprite	<i>Menetus dilatatus</i>
Creeping Ancylid	<i>Ferrisia rivularis</i>
Duck Physa	<i>Physa (Physodon) anatina</i>
Dusky Ancylid	<i>Laevapex fuscus</i>
Glossy Physa	<i>Physa (Physodon) pomilia</i>
Golden Fossaria	<i>Lymnaea (Fossaria) obrussa</i>
Goodrich's Physa	<i>Physa (Physella) goodrichi</i>
Hale's Physa	<i>Physa (Physodon) halei</i>
Highland Campeloma	<i>Campeloma subsolidum</i>
Marsh Ramshorn	<i>Helisoma trivolvis</i>
Marsh Fossaria	<i>Lymnaea (Fossaria) humilis</i>
Midland Siltsnail	<i>Cincinnatia integra</i>
Mimic Lymnaea	<i>Pseudosuccinea columella</i>
Ozark Springsnail	<i>Fontigens aldrichi</i>
Pewter Physa	<i>Physa (Physella) heterostropha</i>
Pygmy Fossaria	<i>Lymnaea (Fossaria) parva</i>
Pyramid Elimia	<i>Elimia potosiensis</i>
Rock Fossaria	<i>Lymnaea (Fossaria) modicella</i>
Rough Rams-Horn	<i>Helisoma subcrenatum</i>
Rough Hornsnail	<i>Pleurocera alveare</i>
Sharp Hornsnail	<i>Pleurocera acuta</i>
Slender Walker	<i>Pomatiopsis lapidaria</i>
Tadpole Physa	<i>Physa (Physella) gyrina</i>
Two-Ridge Rams-Horn	<i>Helisoma anceps</i>

**Table Bc06. Crayfish species occurring in the Current River Watershed (MNHP 2001a, MoRAP 2000c, MDC 1998c). Note: Location data not given for species of conservation concern.**

**UCR**= Upper Current River

**SV**= Spring Valley

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**MCR**= Middle Current River

**PC**= Pike Creek

**CRBC**= Current River-Buffalo Creek

**LCR**= Lower Current River

**LBR**= Little Black River

Common Name	Scientific Name	U C R	S V S C	R C R	M C P	C P C	R B C	L C R	L B R
<b>Cajun dwarf crayfish</b>	<i>Cambarellus pueur</i>								
<b>Devil crayfish</b>	<i>Cambarus diogenes</i>						X	X	X
<b>Salem cave crayfish</b>	<i>Cambarus hubrichti</i>								
<b>Hubbs' crayfish</b>	<i>Cambarus hubbsi</i>			X	X				
<b>Digger crayfish</b>	<i>Fallicambarus fodiens</i>								
<b>Shield crayfish</b>	<i>Faxonella clypeata</i>								
<b>Golden crayfish</b>	<i>Orconectes luteus</i>	X		X	X	X	X	X	X
<b>Gray-speckled crayfish</b>	<i>Orconectes palmeri</i>								X
<b>Northern crayfish</b>	<i>Orconectes virilis</i>			X					X
<b>Ozark crayfish</b>	<i>Orconectes ozarkae</i>			X	X		X	X	X
<b>Spothanded crayfish</b>	<i>Orconectes punctimanus</i>	X		X	X	X	X	X	
<b>Red swamp crayfish</b>	<i>Procambarus clarkii</i>								X
<b>Vernal crayfish</b>	<i>Procambarus viaeviridus</i>								
<b>White River crayfish</b>	<i>Procambarus acutus</i>							X	X

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**Table Bc07. Benthic invertebrate taxa of the Current River Watershed (MDC 1998d and Trial, personal communication).**

Order	Family	Species
Amphipoda	Crangonyctidae	<i>Crangonyx Minor</i> (Bousfield)
Amphipoda	Crangonycitidae	<i>Crangonyx</i> Sp.
Amphipoda	Gammaridae	
Amphipoda	Gammaridae	<i>Gammarus Fasciatus</i> (Say)
Amphipoda	Gammaridae	<i>Gammarus Pseudolimnaeus</i> (Bousfield)
Amphipoda	Gammaridae	<i>Gammarus</i> Sp.
Amphipoda	Talitridae	<i>Hyalella Azteca</i> (Sassure)
Coleoptera	Curculionidae	<i>Stenopelmus Rufinosus</i> (Gyllenhal)
Coleoptera	Dryopidae	<i>Helichus Lithophilus</i> (Germar)
Coleoptera	Dryopidae	<i>Helichus</i> Sp.
Coleoptera	Dytiscidae	
Coleoptera	Dytiscidae	<i>Coptotomus Interrogatus</i> (Fabricius)
Coleoptera	Dytiscidae	<i>Cybister</i> Sp.
Coleoptera	Dytiscidae	<i>Deronectes/oreodytes</i>
Coleoptera	Dytiscidae	<i>Graphoderus Liberus</i> (Say)
Coleoptera	Dytiscidae	<i>Hydaticus Piceus</i> (Leconte)
Coleoptera	Dytiscidae	<i>Hydroporus Niger</i> (Say)
Coleoptera	Dytiscidae	<i>Hydroporus Undulatus</i> (Say)
Coleoptera	Dytiscidae	<i>Illyius Biguttulus</i> (Germar)
Coleoptera	Dytiscidae	<i>Laccophilus Fasciatus</i> (Aube)
Coleoptera	Dytiscidae	<i>Rhantus Tostus</i> (Lenconte)
Coleoptera	Dytiscidae	<i>Uvarus Lacustris</i> (Say)
Coleoptera	Elmidae	<i>Dubiraphia Bivittata</i> (Leconte)
Coleoptera	Elmidae	<i>Dubiraphia</i> Sp.
Coleoptera	Elmidae	<i>Macronychus Glabratus</i> (Say)
Coleoptera	Elmidae	<i>Optioservus Sandersoni</i> (Collier)
Coleoptera	Elmidae	<i>Stenelmis Beameri</i> (Sanderson)
coleopteran	Elmidae	<i>Stenelmis</i> Sp.
Coleoptera	Grynidae	<i>Dineutus</i> Sp.
Coleoptera	Gyrinidae	<i>Gyretes</i> Sp.
Coleoptera	Haliplidae	<i>Peltodytes Edentulus</i> (Leconte)
Coleoptera	Haliplidae	<i>Peltodytes Lengi</i> (Roberts)
Coleoptera	Haliplidae	<i>Peltodytes</i> Sp.
Coleoptera	Haliplidae	<i>Peltodytes Tortulosus</i> (Roberts)
Coleoptera	Heteroceridae	
Coleoptera	Hydrophilidae	
Coleoptera	Hydrophilidae	<i>Berosus</i> Sp.

Coleoptera	Hydrophilidae	Chaeterthria Sp.
Coleoptera	Hydrophilidae	Cymbiodyta Sp.
Coleoptera	Hydrophilidaeq	Helochares Sp.
Coleoptera	Hydrophilidae	Hydrobius Sp.
Coleoptera	Hydrophilidae	Hydrochus Sp.
Coleoptera	Hydrophilidae	Hydrophilus Sp.
Coleoptera	Hydrophilidae	Laccobius Sp.
Coleoptera	Hydrophilidae	Tropisternus Batchleyi Blatchleyi (D'orchymont)
Coleoptera	Hydrophilidae	Tropisternus Lateralis Nimbatus (Say)
Coleoptera	Limnicidae	Lutrochus Laticeps (Casey)
Coleoptera	Psephenidae	Ectopria Nervosa (Milsheimer)
Coleoptera	Psephenidae	Psephenus Herricki (Dekay)
Coleoptera	Staphylinidae	
Coleoptera	Unkown	Unidentified Coleoptera
Decapoda	Cambaridae	Orconectes Luteus (Creaser)
Decapoda	Cambaridae	Orconectes Marchandi ( Hobbs )
Decapoda	Cambaridae	Orconectes Sp.
Diptera	Athericidae	Atherix Lantha (Webb)
Diptera	Ceratopogonidae	
Diptera	Ceratopogonidae	Atrichopogon Sp.
Diptera	Ceratopogonidae	Bezzia/probezzia...
Diptera	Ceratopogonidae	Forcipomyia Sp.
Diptera	Chaoboridae	
Diptera	Chaoboridae	Chaoborus Sp.
Diptera	Chironomidae	
Diptera	Culicidae	Aedes Sp.
Diptera	Dixidae	
Diptera	Empididae	
Diptera	Ephydriidae	
Diptera	Musicidae	
Diptera	Psychodidae	Pericoma Sp.
Diptera	Simuliidae	
Diptera	Stratiomyidae	
Diptera	Stratiomyidae	Euparyphus sp.
Diptera	Stratiomyidae	Nemotelus Sp.
Diptera	Stratiomyidae	OxyceraSp.
Diptera	Tabanidae	
Diptera	Tabanidae	Chrysops Sp.
Diptera	Tabanidae	Silvius Sp.
Diptera	Tanyderidae	Protoplasa fitchii (Osten-sacken)

Diptera	Tipulidae	Antocha Sp.
Diptera	Tipulidae	Erioptera Sp.
Diptera	Tipulidae	Hexatoma Sp.
Diptera	Tipulidae	Limonia Sp.
Diptera	Tipulidae	Tipula Sp.
Diptera	Tipulidae	Tipulidae
Ephemeroptera	Baetidae	
Ephemeroptera	Baetidae	Accentrella Sp.
Ephemeroptera	Baetidae	Baetis Brunneicolor (Mcdunnough)
Ephemeroptera	Baetidae	Baetis Sp.
Ephemeroptera	Baetidae	Baetis Tricaudatus (Dodds)
Ephemeroptera	Baetidae	Callibaetis Sp.
Ephemeroptera	Baetiscidae	Baetisca Lacustris (Mcdunnough)
Ephemeroptera	Caenidae	Caenis Sp.
Ephemeroptera	Ephemerellidae	Ephemerella (Invaria Grp.)
Ephemeroptera	Ephemerellidae	Ephemerella Aurivillii (Bengtsson)
Ephemeroptera	Ephemerellidae	Ephemerella Dorothea ( Needham )
Ephemeroptera	Ephemerellidae	Ephemerella Invaria ( Walker )
Ephemeroptera	Ephemerellidae	Ephemerella Sp.
Ephemeroptera	Ephemerellidae	Ephemerella Subvaria (Mcdunnough)
Ephemeroptera	Ephemerellidae	Eurylophella (Bicolor Grp.)
Ephemeroptera	Ephemerellidae	Eurylophella Lutulenta (Clemens)
Ephemeroptera	Ephemerellidae	Eurylophella sp.
Ephemeroptera	Ephemerellidae	Serratella (Serrata Grp.)
Ephemeroptera	Ephemerellidae	Serratella Deficiens (Morgan)
Ephemeroptera	Ephemerellidae	Serratella Sp.
Ephemeroptera	Ephemeridae	Ephemera Guttulata (Pictet)
Ephemeroptera	Ephemeridae	Ephemera Sp.
Ephemeroptera	Ephemeridae	Hexagenia Limbata (Serville)
Ephemeroptera	Ephemeridae	Hexagenia Sp.
Ephemeroptera	Heptageniidae	Heptagenia Sp.
Ephemeroptera	Heptageniidae	Rhithrogena Pellucida (Daggy)
Ephemeroptera	Heptageniidae	Stenacron Gildersleevei (Traver)
Ephemeroptera	Heptageniidae	Stenacron Sp.
Ephemeroptera	Heptageniidae	Stenonema Bednariki (McCafferty)
Ephemeroptera	Heptageniidae	Stenonema Femoratum (Say)
Ephemeroptera	Heptageniidae	Stenonema Mediopunctatum (Mcdunnough)
Ephemeroptera	Heptageniidae	Stenonema Pulchellum (Walsh)
Ephemeroptera	Heptageniidae	Stenonema Terminatum (Walsh)

Ephemeroptera	Heptageniidae	Stenonema Vicarium ( Walker )
Ephemeroptera	Isonychiidae	Isonychia Sp.
Ephemeroptera	Leptophlebiidae	
Ephemeroptera	Leptophlebiidae	Choroterpes Basalis ( Banks )
Ephemeroptera	Leptophlebiidae	Choroterpes Sp.
Ephemeroptera	Leptophlebiidae	Leptophlebia Cupida ( Say )
Ephemeroptera	Leptophlebiidae	Leptophlebia Sp.
Ephemeroptera	Leptophlebiidae	Paraleptophlebia Moerens ( Mcdunnough )
Ephemeropter	Potamanthidae	Anthopotamus sp.
Ephemeroptera	Tricorythidae	Tricorythodes Sp.
Gordiida		
Hemiptera	Belostomatidae	Belostoma Sp.
Hemiptera	Corixidae	
Hemiptera	Corixidae	Hesperocorixa Nitida ( Fieber )
Hemiptera	Corixidae	Hesperocorixa Sp.
Hemiptera	Corixidae	Sigara Mathesoni ( HungerFord )
Hemiptera	Corixidae	Gerris Canaliculatus ( Say )
Hemiptera	Gerridae	Gerris Canaliculatus ( Say )
Hemiptera	Gerridae	Gerris Remigis ( Say )
Hemiptera	Gerridae	Gerris Sp.
Hemiptera	Gerridae	Metrobates Hesperius ( Uhler )
Hemiptera	Gerridae	Rheumatobates Sp.
Hemiptera	Hebridae	Hebrus Sp.
Hemiptera	Notonectidae	Buenoa Sp.
Hemiptera	Notonectidae	Notonecta Undulata ( Say )
Hemiptera	Pleidae	Neoplea Striola ( Fieber )
Hemiptera	Salidae	
Hemiptera	Veliidae	
Hemiptera	Veliidae	Microvelia Americana ( Uhler )
Hemiptera	Veliidae	Rhagovelia Sp.
Hirudinea <sup>2</sup>		
Hirudinea <sup>2</sup>	Branchiobdellidae <sup>1</sup>	
Hydracarina	Acari	
Isopoda	Asellidae	Caecidotea Sp.
Isopoda	Asellidae	Lirceus Sp.
Lepidoptera	Pyralidae	Petrophila Sp.
Lymnophila	Ancylidae	Ferrissia Fragilis ( Tryon )
Lymnophila	Ancylidae	Ferrissia Sp.
Lymnophila	Lymnaeidae	
Lymnophila	Lymnaeidae	Lymnaea ( Stagnicola ) Sp.

Lymnophila	Physidae	
Lymnophila	Physidae	<b>Physa (Physella) Sp.</b>
Lymnophila	Planorbidae	
Megagastropoda	Pleuroceridae	<b>Elimia Potosiensis Plebeius (Gould)</b>
Megagastropoda	Pleuroceridae	<b>Elimia Potosiensis Potosiensis (Lea)</b>
Megagastropoda	Pleuroceridae	<b>Elimia Sp.</b>
Megagastropoda	Viviparidae	
Megaloptera	Corydalidae	<b>Chauliodes Sp.</b>
Megaloptera	Corydalidae	<b>Corydalus Cornutus (Linnaeus)</b>
Megaloptera	Corydalidae	<b>Nigronia Serricornus (Say)</b>
Megaloptera	Sialidae	<b>Sialis Sp.</b>
Nemata <sup>3</sup>		
Neuroptera	Sisyridae	<b>Sisyra Sp.</b>
Odonata	Aeshnidae	
Odonata	Aeshnidae	<b>Anax Junius (Drury)</b>
Odonata	Aeshinidae	<b>Basiaeschna Janata (Say)</b>
Odonata	Aeshinidae	<b>Boyeria Vinosa (Say)</b>
Odonata	Calopterygidae	<b>Calopteryx Sp.</b>
Odonata	Calopterygidae	<b>Hetaerina Americana (Fabricius)</b>
Odonata	Coenagrionidae	
Odonata	Coenagrionidae	<b>Argia Moesta (Gagen)</b>
Odonata	Gomphidae	<b>Ophigomphus westfalli (Cook &amp; Daigle)</b>
Odonata	Gomphidae	<b>Erpetogomphus Designatus ( Hagen )</b>
Odonata	Gomphidae	<b>Stylogomphus Albistylus ( Hagen )</b>
Odonata	Lestidae	<b>Lestes Dryas (Kirby)</b>
Odonata	Libellulidae	
Odonata	Libellulidae	<b>Erythemis Simplicicollis (Say)</b>
Odonata	Libellulidae	<b>Erythrodiplax Sp.</b>
Odonata	Libellulidae	<b>Libellula Lydia (Drury)</b>
Odonata	Libellulidae	<b>Pachydiplax Longipennis (Burmeister)</b>
Odonata	Libellulidae	<b>Tramea Carolina (Linnaeus)</b>
Odonata	Macromiidae	<b>Didymops Sp.</b>
Odonata	Petaluridae	<b>Tachopteryx thoreyi ( Hagen )</b>
Oligocheata		
Plecoptera	Capniidae	
Plecoptera	Capniidae	<b>Allocapnia pygmaea</b>
Plecoptera	Capniidae	<b>Paracapnia Sp.</b>
Plecoptera	Chloroperlidae	<b>Haploperla Brevis (Banks)</b>
Plecoptera	Leuctridae	
Plecoptera	Leuctridae	<b>Leuctra Sp.</b>

Plecoptera	Nemouridae	
Plecoptera	Nemouridae	Nemoura Sp.
Plecoptera	Perlidae	
Plecoptera	Perlidae	Acroneruia Internata ( Walker )
Plecoptera	Perlidae	Acroneruia Sp.
Plecoptera	Perlidae	Agnetia Capitata (Pictet)
Plecoptera	Perlidae	Neoperla Sp.
Plecoptera	Perlidae	Paragnetina Media (Walker)
Plecoptera	Perlidae	Paragnetina Sp.
Plecoptera	Perlidae	Perlestia Sp.
Plecoptera	Perlidae	Perlinella Drymo (Newman)
Plecoptera	Perlidae	Perlinella Sp.
Plecoptera	Perlodidae	
Plecoptera	Perlodidae	Clioperla Clio (Newman)
Plecoptera	Perlodidae	Hydroperla Crosbyi (Needham & Classen)
Plecoptera	Perlodidae	Hydorperla Sp.
Plecoptera	Perlodidae	Hydroperla Sp.
Plecoptera	Perlodidae	Isoperla Bilineata (Say)
Plecoptera	Perlodidae	Isoperla Mohri (Frison)
Plecoptera	Pteronarcyidae	Pteronarcys Pictetii ( Hagen )
Plecoptera	Pteronarcyidae	Pteronarcys Sp.
Plecoptera	Taeniopterygidae	Strophopteryx Fasciata (Brumeister)
Plecoptera	Taeniopterygidae	Strophopteryx Sp.
Plecoptera	Taeniopterygidae	Taeniopteryx Metequi (Ricker & Ross)
Plecoptera	Unknown	Unidentified Plecoptera
Trichoptera	Brachycentridae	Brachycentrus Americanus (Banks)
Trichoptera	Brachycentridae	Brachycentrus Sp.
Trichoptera	Brachycentridae	Micrasema Rusticum ( Hagen )
Trichoptera	Glossosomatidae	
Trichoptera	Glossosomatidae	Agapetus Sp.
Trichoptera	Glossosomatidae	Glossosoma Intermedium (Klapalek)
Trichoptera	Glossosomatidae	Glossosoma Sp.
Trichoptera	Glossosomatidae	Protoptila Lega (ross)
Trichoptera	Helicopsychidae	Helocopsyche Borealis ( Hagen )
Trichoptera	Hydropsychidae	
Trichoptera	Hydropsychidae	Ceratopsyche (Morosa Grp.)
Trichoptera	Hydropsychidae	Ceratopsyche Morosa ( Hagen )
Trichoptera	Hydropsychidae	Ceratopsyche Piatrix (Ross)
Trichoptera	Hydropsychidae	Ceratopsyche Slossonae (Banks)
Trichoptera	Hydropsychidae	Cheumatopsyche Sp.

Trichoptera	Hydropsychidae	Hydropsyche Betteni (Ross)
Trichoptera	Hydropsychidae	Hydropsyche Cuanis (Ross)
Trichoptera	Hydropsychidae	Hydropsyche piatrix
Trichoptera	Hydropsychidae	Hydropsyche Simulans/incommada
Trichoptera	Hydropsychidae	Macrostemum Carolina (Banks)
Trichoptera	Hydropsychidae	Potamyia Flava ( Hagen )
Trichoptera	Hydroptilidae	
Trichoptera	Hydroptilidae	Agraylea Multipunctata (Curtis)
Trichoptera	Hydroptilidae	Agraylea Sp.
Trichoptera	Hydroptilidae	Hydroptila Sp.
Trichoptera	Hydroptilidae	Ochrotrichia Sp.
Trichoptera	Hydroptilidae	Oxyethira Sp.
Trichoptera	Lepidostomatidae	
Trichoptera	Lepidostomatidae	Lepidostoma Sp.
Trichoptera	Leptoceridae	
Trichoptera	Leptoceridae	Oecetis Inconspicua ( Walker )
Trichoptera	Leptoceridae	Oecitis Sp.
Trichoptera	Leptoceridae	Setodes Sp.
Trichoptera	Limnephilidae	
Trichoptera	Limnephilidae	Limnephilus Sp.
Trichoptera	Limnephilidae	Neophylax Fuscus (Banks)
Trichoptera	Limnephilidae	Pseudostenophylax Uniformis (Betten)
Trichoptera	Limnephilidae	Pycnopsyche (Lepida Gp)
Trichoptera	Limnephilidae	Pycnopsyche Sp.
Trichoptera	Philopotamidae	Chimarra Aterrima ( Hagen )
Trichoptera	Philopotamidae	Chimarra Obscura ( Walker )
Trichoptera	Philopotamidae	Chimarra Sp.
Trichoptera	Philopotamidae	Wormaldia Moesta (Banks)
Trichoptera	Phryganeidae	
Trichoptera	Polycentropodidae	
Trichoptera	Polycentropodidae	Neureclipsis Sp.
Trichoptera	Polycentropodidae	Paranyctiophylax Sp.
Trichoptera	Polycentropodidae	Phylocentropus Sp.
Trichoptera	Psychomyiidae	Psychomyia Flavida ( Hagen )
Trichoptera	Rhyacophilidae	
Trichoptera	Rhyacophilidae	Rhyacophila Sp.
Tricladida	Planariidae	
Tricladida	Planariidae	Dugesia Sp.
Unionoida	Unionidae	Amblema Plicata Plicata (Say)
Unionoida	Unionidae	Elliottio Dilata (Rafinesque)

<b>Unionoida</b>	<b>Unionidae</b>	<b>Fusconaia Ozarkensis (Call)</b>
<b>Unionoida</b>	<b>Unionidae</b>	<b>Lampsilis Reeviana Brevicula (call)</b>
<b>Unionoida</b>	<b>Unionidae</b>	<b>Lampsilis Teres Teres (Rafinesque)</b>
<b>Unionoida</b>	<b>Unionidae</b>	<b>Ptychobranchus Occidentalis (Conrad)</b>
<b>Veneroida</b>	<b>Corbiculidae</b>	<b>Corbicula Fluminea (Muller)</b>
<b>Veneroida</b>	<b>Corbiculidae</b>	<b>Corbicula Sp.</b>
<b>Veneroida</b>	<b>Sphaeriidae</b>	

<sup>1</sup> Subclass, <sup>2</sup> Class, <sup>3</sup> Phylum

**Table Bc08 (1 of 10). Species of conservation concern within the Current River Watershed (MDC Ozark Regional Fish Community Collection and Sport Fish Sample Files; Pflieger 1997; Wu et al. 1997; MDC 1998a; MDC 1998b; MDC 1998c; MDC 1998d; MoRAP 2000a; MoRAP 2000b; MoRAP 2000c; MNHP 2001a; MNHP 2001b).**

**Year**=Last year observed in watershed.

E=Endangered

**F=Federal Status**

**M= Missouri Status**

T=Threatened

\* =Former category-2 candidate (In December of 1996, the USFWS discontinued the practice of maintaining a list of species regarded as “category-2 candidates”. MDC continues to distinguish these species for information and planning purposes.

**SRrank**

S1=Critically imperiled in the state because of extreme rarity or because of some factor(s) making it especially vulnerable to extirpation from the state. (typically 5 or fewer occurrences or very few remaining individuals)

S2=Imperiled in the state because of rarity or because of some factor(s) making it very vulnerable to extirpation from the state. (6 to 20 occurrences or few remaining individuals or acres)

S3=Rare and uncommon in the state. (21 to 100 occurrences)

S4=Widespread, abundant, and apparently secure in state, with many occurrences, but the species is of long-term concern. (usually more than 100 occurrences)

S5=Demonstrably widespread, abundant, and secure in the state, and essentially ineradicable under present conditions.

SU=Unrankable: Possibly in peril in the state, but status uncertain; need more information.

SE=Exotic: An exotic established in the state; may be native in nearby regions.

SH=Historical: Element occurred historically in the state (with expectation that it may be rediscovered). Perhaps having not been verified in the past 20 years, and suspected to be still extant.

SX=Extirpated: Element is believed to be extirpated from the state.

S?=Unranked: Species is not yet ranked in the state.

**Qualifier:**

? =Inexact or uncertain: for numeric ranks, denotes inexactness. (The ? qualifies the character immediately preceding it in Srank)

**GRank**

G1=Critically imperiled globally because of extreme rarity or because of some factor(s) making it especially vulnerable to extinction. (typically 5 or fewer occurrences or very few remaining individuals or acres)

G2=Imperiled globally because of rarity or because of some factor(s) making it very vulnerable to extinction throughout its range. (6 to 20 occurrences or few remaining individuals or acres)

G3=Either very rare and local throughout its range or found locally (even abundantly at some of its locations) in a restricted range (e.g., a single western state, a physiographic region in the East) or because of other factors making it vulnerable to extinction throughout its range. (21 to 100 occurrences)

G4=Widespread, abundant, and apparently secure globally, though it may be quite rare in parts of its range, especially at the periphery. Thus, the element is of long-term concern. (usually more than 100 occurrences)

G5=Demonstrably Widespread, abundant, and secure globally, though it may be quite rare in parts of its range, especially at the periphery.

Subrank:

T=Taxonomic subdivision: rank applies to subspecies or variety.

Qualifier:

? =Inexact: denotes inexact numeric rank.

Q=Questionable taxonomy: taxonomic status is questionable; numeric rank may change with taxonomy.

Common Name	Scientific Name	S RANK	G RANK	M	F	Year
<b>Amphibians</b>						
Four-toed Salamander	<i>Hemidactylum scutatum</i>	S4	G5			1997
Mole Salamander	<i>Ambystoma talpoideum</i>	S2	G5			2000
Ozark Hellbender	<i>Cryptobranchus alleganiensis bishopi</i>	S1	G4T3			1992
Ringed Salamander	<i>Ambystoma annulatum</i>	S3	G4			1984
<b>Birds</b>						
Cooper's Hawk	<i>Accipiter cooperii</i>	S3	G5			1990
Osprey	<i>Pandion haliaetus</i>	SX	G5			1986
Pied-billed Grebe	<i>Podilymbus podiceps</i>	S2	G5			1989
Red-cockaded Woodpecker	<i>Picoides borealis</i>	SX	G3	E		1946
Red-shouldered Hawk	<i>Buteo lineatus</i>	S3	G5			1986
Sharp-shinned Hawk	<i>Accipiter striatus</i>	S2	G5			1986
Swainson's Warbler	<i>Limnothlypis swainsonii</i>	S1	G4	E		2000
<b>Fish</b>						
Alligator Gar	<i>Lepisosteus spatula</i>	SX	G3G4			1978
American Brook Lamprey	<i>Lampetra appendix</i>	S2	G4			1962
Blue Sucker	<i>Cyclopterus elongatus</i>	S3	G3G4			1959
Checkered Madtom	<i>Noturus flavater</i>	S3S4	G3G4			1994
Flier	<i>Centrarchus macropterus</i>	S3	G5			1966
Harlequin Darter	<i>Etheostoma histrio</i>	S2	G5	E		1998
Highfin Carpsucker	<i>Carpiodes velifer</i>	S2	G4G5			1966
Lake Chubsucker	<i>Erimyzon suetta</i>	S2	G5			1930
Mississippi Silvery Minnow	<i>Hybognathus nuchalis</i>	S3S4	G5			1998
Mooneye	<i>Hiodon tergisus</i>	S3	G5			
Ozark Shiner	<i>Notropis ozarcanus</i>	S2	G3			1992
Pallid Shiner	<i>Notropis amnis</i>	SX	G4			1941
Pugnose Minnow	<i>Opsopoeodus emiliae</i>	S4	G5			1978

Southern Cavefish	<i>Typhlichthys subterraneus</i>	S2S3	G4			1993
Stargazing Darter	<i>Percina uranidea</i>	S2	G3			1994
Starhead Topminnow	<i>Fundulus dispar</i>	S2	G4			1963
Taillight Shiner	<i>Notropis maculatus</i>	S1	G5	E		1978
<b>Mammals</b>						
Golden Mouse	<i>Ochrotomys nuttalli</i>	S3?	G5			1989
Gray Bat	<i>Myotis grisescens</i>	S3	G3	E	E	2000
Indiana Bat	<i>Myotis sodalis</i>	S1	G2	E	E	2001
Northern Myotis	<i>Myotis septentrionalis</i>	S3	G4			1999
Plains Spotted Skunk	<i>Spilogale putorius interrupta</i>	S1	G5T4	E		1982
Swamp Rabbit	<i>Sylvilagus aquaticus</i>	S2?	G5			2001
<b>Reptiles</b>						
Alligator Snapping Turtle	<i>Macroclemys temminckii</i>	S2	G3G4			1993
Eastern Collared Lizard	<i>Crotaphytus collaris collaris</i>	S4	G5			1982
Western Mud Snake	<i>Farancia abacura reinwardtii</i>	S2	G5T5			1985
<b>Crayfish</b>						
Cajun Dwarf Crayfish	<i>Cambarellus puer</i>	S3?	G4G5			1987
Digger Crayfish	<i>Fallicambarus fodiens</i>	S2S3	G5			1988
Salem Cave Crayfish	<i>Cambarus hubrichti</i>	S3	G2			1993
Shield Crayfish	<i>Faxonella clypeata</i>	S2S3	G5			1988
Vernal crayfish	<i>Procambarus viaeviridis</i>	S3?	G5			1988
<b>Insects</b>						
A Net-spinning Caddisfly	<i>Hydropsyche piatrix</i>	S4	G?			1988
A Leaf Beetle	<i>Xenochalepus potomaca</i>	SU	G?			1994
A Winter Stonefly	<i>Allocapnia pygmaea</i>	S3	G5			1987
Comet Darner	<i>Anax longipipes</i>	S3	G5			?
Gray Petaltail	<i>Tachopteryx thoreyi</i>	S3	G4			2000
Hoosier Grasshopper	<i>Paroxya hoosieri</i>	S1	G5			2000
Westfall's Snaketail	<i>Ophiogomphus westfalli</i>	S3	G3			2000
<b>Mussels</b>						
Bankclimber	<i>Plectomerus dombeyanus</i>	S3	G4			1979
Black Sandshell	<i>Ligumia recta</i>	S1S2	G5			1998
Curtis Pearlymussel	<i>Epioblasma florentina curtisi</i>	S1	G1T1	E	E	1993
Ebonyshell	<i>Fusconaia ebena</i>	S1?	G4G5	E		1979
Elephantear	<i>Elliptio crassidens</i>	S1	G5	E		1980
Ouachita Kidneyshell	<i>Ptychobranchus occidentalis</i>	S2S3	G3G4			1998
Pink Mucket	<i>Lampsilis abrupta</i>	S2	G2	E	E	1979
Purple Lilliput	<i>Toxolasma lividus</i>	S2	G2			1998
Snuffbox	<i>Epioblasma triquetra</i>	S1	G3	E		1984
Western Fanshell	<i>Cyprogenia aberti</i>	S1S2	G2			1998
Snails						
Rough Hornsnail	<i>Pleurocera alveare</i>	S1S3	G3G4			
<b>Non-vascular bryophytes</b>						
A Liverwort	<i>Aneura pinguis</i>	SU	G5			1990

A Liverwort	<i>Metzgeria furcata</i>	S?	G5		1990
A Liverwort	<i>Nowellia curvifolia</i>	S?	G5		1990
A Liverwort	<i>Riccia stenophylla</i>	SU	G3G5		1999
A Liverwort	<i>Riccardia multifida</i>	S1	G5		1990
A Moss	<i>Barbula convoluta var. convoluta</i>	S?	G5T?		1959
A Moss	<i>Bryum cyclophyllum</i>	S?	G4G5		1962
A Moss	<i>Calliergonella cuspidata</i>	S?	G5		1986
A Moss	<i>Dichelyma capillaceum</i>	S1	G5		1992
A Moss	<i>Forsstroemia producta</i>	S1	G5?		1962
A Moss	<i>Grimmia olneyi</i>	S?	G3G5		1973
A Moss	<i>Hypnum cupressiforme var. Filiforme</i>	S1	G5T?		1985
A Moss	<i>Leskeia australis</i>	S1	G4		1992
A Moss	<i>Leskeia polycarpa var. polycarpa</i>	S?	G4G5T?		1992
A Moss	<i>Mnium thomsonii</i>	S?	G5		1961
A Moss	<i>Myurella sibirica</i>	S?	G4?		1961

#### Plants-dicotyledon

A Bluet	<i>Hedyotis boscii</i>	S1	G5		1949
A Corydalis	<i>Corydalis micrantha ssp. australis</i>	S2	G5T5?		1993
A False Dragonhead	<i>Physostegia intermedia</i>	S1	G5		1937
A False Loosestrife	<i>Ludwigia microcarpa</i>	S2	G5		1992
A Thoroughwort	<i>Eupatorium semiserratum</i>	S1S2	G5		1955
A Thoroughwort	<i>Eupatorium rotundifolium var. Scabridum</i>	S1?	G5T?		1993
A Water Willow	<i>Justicia ovata</i>	S2	G5		1994
Barren Strawberry	<i>Waldsteinia fragarioides ssp. fragarioides</i>	S2	G5T5		1988
Black Snakeroot	<i>Sanicula smallii</i>	SH	G5		1900
Blunt Mountain Mint	<i>Pycnanthemum muticum</i>	S2	G5		1994
Carolina Phlox	<i>Phlox carolina ssp. angusta</i>	SH	G5?T?		1897
Carolina Phlox	<i>Phlox carolina ssp. carolina</i>	S1	G5?T3T5Q		1987
Coontail	<i>Ceratophyllum echinatum</i>	S1?	G4?		1986
Corkwood	<i>Leitneria floridana</i>	S2	G3		2000
Elliott Sida	<i>Sida elliottii</i>	S1	G4G5		1935
False Bugbane	<i>Trautvetteria caroliniensis</i>	S2	G5		1988
Featherfoil	<i>Hottonia inflata</i>	S2	G4		1996
Finger Dog-shade	<i>Cynosciadium digitatum</i>	S2	G4G5		1995
Fleabane	<i>Conyza canadensis var. Pusilla</i>	S1S2	G5T5		1946
Forked Aster	<i>Aster furcatus</i>	S2	G3		1990
Juniper-leaf	<i>Polypremum procumbens</i>	S2	G5		1994
Large-leaved Phlox	<i>Phlox amplifolia</i>	S3?	G3G5		1996
Marsh Bellflower	<i>Campanula aparinoides</i>	S1	G5		1949
Marsh St John's Wort	<i>Triadenum tubulosum</i>	S1	G4?		1995
Marsh Blue Violet	<i>Viola cucullata</i>	S3	G4G5		1995

Miterwort	<i>Mitreola petiolata</i>	S1	G5			1987
Nuttall's Oak	<i>Quercus texana</i>	S2	G4G5			1993
Ovate Fiddleleaf	<i>Hydrolea ovata</i>	S2	G5			1995
Parsley Haw	<i>Crataegus marshallii</i>	S1	G5			1993
Pinnate Dogshade	<i>Limnosciadium pinnatum</i>	S1	G5?			1951
Pondberry	<i>Lindera melissifolium</i>	S1	G2	E	E	2000
Purple False Foxglove	<i>Agalinis purpurea</i>	S2	G5			1993
Running Buffalo Clover	<i>Trifolium stoloniferum</i>	S1	G3	E	E	1997
Slender Bladderwort	<i>Utricularia subulata</i>	S1	G5			1995
Small Sundrops	<i>Oenothera perennis</i>	S1	G5			1951
Southern Monkshood	<i>Aconitum uncinatum</i>	S1	G4			2000
Strawberry Bush	<i>Euonymus americanus</i>	S2	G5			1994
Sullivantia	<i>Sullivantia sullivantii</i>	S2	G4			1965
Tall Larkspur	<i>Delphinium exaltatum</i>	S2	G3			1998
Tradescant Aster	<i>Aster dumosus var. Strictior</i>	S2	G5T4			1969
Water Oak	<i>Quercus nigra</i>	S2	G5			1994
Water Hyssop	<i>Mecardonia acuminata</i>	S1	G5			1995
Wild Sweet William	<i>Phlox maculata ssp. pyramidalis</i>	S2	G5T4T5			2001
Wood Anemone	<i>Anemone quinquefolia</i>	S1	G5			1988
Yellow False Mallow	<i>Malvastrum hispidum</i>	S3	G3G5			1934
A Brome	<i>Bromus nottowayanus</i>	S2S3	G3G4			2000
A Brome	<i>Bromus latiglumis</i>	S2S3	G5			2000
A Bulrush	<i>Scirpus divaricatus</i>	SH	G5			1935
A Panic Grass	<i>Panicum leibergii</i>	SU	G5			1993
A Sedge	<i>Carex vesicaria var. Monile</i>	S2?	G5T4			1996
A Sedge	<i>Carex abscondita</i>	S1	G4G5			1989

#### Plants-monocotyledon

A Sedge	<i>Carex atlantica ssp. atlantica</i>	S1	G5T4			1981
A Sedge	<i>Carex sterilis</i>	S1	G4			1982
An Umbrella Sedge	<i>Cyperus flavicomus</i>	S1	G5			1994
Bristly Sedge	<i>Carex comosa</i>	S2	G5			1990
Broad Waterweed	<i>Elodea canadensis</i>	SU	G5			1990
Broadwing Sedge	<i>Carex alata</i>	S2S3	G5			1996
Cherokee Sedge	<i>Carex cherokeensis</i>	S2	G4G5			1999
Columbia Water-meal	<i>Wolffia columbiana</i>	SU	G5			1936
Cranefly Orchid	<i>Tipularia discolor</i>	S1	G4G5			1998
Dotted Water-meal	<i>Wolffia punctata</i>	SU	G5			1936
Eastern Blue-eyed Grass	<i>Sisyrinchium atlanticum</i>	S2	G5			1999
Eastern Prairie Fringed Orchid	<i>Platanthera leucophaea</i>	SH	G2	E	T	1951
Epiphytic Sedge	<i>Carex decomposita</i>	S3	G3			1996
Floating Foxtail Grass	<i>Alopecurus aequalis</i>	S2	G5			1980
Gaping Panic Grass	<i>Panicum hians</i>	S3	G5			1997
Green Adder's Mouth	<i>Malaxis unifolia</i>	S3	G5			1996

Green Wood Orchid	<i>Platanthera clavellata</i>	S2	G5			1995
Hairy-fruited Sedge	<i>Carex trichocarpa</i>	S1	G4			1986
Interior Wild Rice	<i>Zizania palustris var. Interior</i>	SH	G4G5T4T5			1954
Lance-like Spike Rush	<i>Eleocharis lanceolata</i>	S1	G4G5			1975
Loesel's Twayblade	<i>Liparis loeselii</i>	S2	G5			1987
Northern Rein Orchid	<i>Platanthera flava var. herbiola</i>	S2	G4T4Q			1986
Oferhollow Reed Grass	<i>Calamagrostis porteri ssp. insperata</i>	S3	G4T3			1990
Pale Manna Grass	<i>Torreya ochloa pallida</i>	S1	G5?			1988
Plukenet's Cyperus	<i>Cyperus plukenetii</i>	S1	G5			1899
Prairie Iris	<i>Nemastylis geminiflora</i>	S2	G4			1994
Sharp-scale Sedge	<i>Carex oxylepis</i>	S2	G5?			1995
Sharp-scaled Manna Grass	<i>Glyceria acutiflora</i>	S3	G5			1996
Showy Lady-slipper	<i>Cypripedium reginae</i>	S2S3	G4			1993
Slender Spike Grass	<i>Chasmanthium laxum ssp. laxum</i>	S1	G5T?			1997
Snake-mouth Orchid	<i>Pogonia ophioglossoides</i>	S1	G5			1991
Spotted Pondweed	<i>Potamogeton pulcher</i>	S2S3	G5			1997
Spreading Sedge	<i>Carex laxiculmis</i>	S2	G5			1993
Star Duckweed	<i>Lemna trisulca</i>	S2	G5			1987
Straw Sedge	<i>Carex straminea</i>	S1	G5			1996
Tussock Sedge	<i>Carex stricta</i>	S2?	G5			1994
Umbrella Sedge	<i>Cyperus retroflexus</i>	S1	G5			1997
Water Canna	<i>Thalia dealbata</i>	S2	G4			1997
Weak Rush	<i>Juncus debilis</i>	S1	G5			1986
White-edge Sedge	<i>Carex debilis var. debilis</i>	S1	G5T5			1951
Wild Leek	<i>Allium burdickii</i>	S2	G4G5			1944
Yellow-eyed Grass	<i>Xyris torta</i>	S1	G5			1987
Yellow-fringed Orchid	<i>Platanthera ciliaris</i>	S1	G5			1951
<b>Ferns and Fern Allies</b>						
Few-lobed Grape Fern	<i>Botrychium biternatum</i>	S1	G5			1986
Goldie's Fern	<i>Dryopteris goldiana</i>	S2	G4			1990
Log Fern	<i>Dryopteris celsa</i>	S1	G4			1987
Engelmann's Quillwort	<i>Isoetes engelmannii var. engelmannii</i>	S1?	G4T?			1996
Missouri Cliffbrake	<i>Pellaea glabella var. missouriensis</i>	S1S2	G5T1T2			1920
Netted Chain Fern	<i>Woodwardia areolata</i>	S2	G5			1999

**Note:** Data in table subject to revision. This table is not a final authority.